

Abstract

To provide a process for producing a high-purity aqueous hydrogen peroxide solution from which metal ion
5 impurities are removed as much as possible by purifying an aqueous hydrogen peroxide solution containing metal ion impurities.

A process for producing a purified aqueous hydrogen peroxide solution comprises contacting an
10 aqueous hydrogen peroxide solution containing metal ion impurities firstly with a H^+ type cation exchange resin, secondly with a carbonate ion (CO_3^{2-}) type or bicarbonate ion (HCO_3^-) type anion exchange resin, and
15 thirdly with a H^+ type cation exchange resin.

Further, a process for producing a purified aqueous hydrogen peroxide solution comprises contacting an aqueous hydrogen peroxide solution containing metal ion impurities
20 firstly with a H^+ type cation exchange resin, secondly with a fluoride ion (F^-) type anion exchange resin, thirdly with a carbonate ion (CO_3^{2-}) type or bicarbonate ion (HCO_3^-) type anion exchange resin, and

fourthly with a H^+ type cation exchange resin.

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